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Liew, Choong-Chin

<120> Method for the Detection of Gene Transcripts in Blood and Uses
Thereof

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<150> US

<151> 2000-01-04

<150> US 60/115,125

<151> 1999-01-06

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<170> PatentIn version 3.2

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 cccacattc cattttaat atatactgt cttacaaat attataatat gttttaaat 180
 40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaa ataagcattc 240
 ttgaaatata tatttagttt ttaattgtg taggaaaatc aaagccagag ggagtagaaa 300
 caaaatttgt gattttctaa atactcttg gctgcaggga agaaaccacg tcccaggcga 360
 45 agtctacct aattgatga taaaattaca tggaagggat tctgttggc atgaggacct 420

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438

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 15 aaagggggaa ggcccccaa accggggggg gggnaaaaag gtgggtttcc cccttttcc 180
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 45 caaattgggg ggnaaaccaa atttaagggg ggaagggggg gnccccccg ggaaaggccc 180

aaggggggaa aattttccg ggggtgggtg gggggaacca atttaagggg ggggccccg 240

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15

ctgtacttga actctaaac tgggtgagaa actcagtgt tactccaaca gattcatttc 180

aaatagctgt aaaaggtatg ttactccag aagaccagag ttgcttctt tgaacttctc 240

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attccttggg cctaggaacc ctcatcacc tcacccaac gtcaaccag atcttctctt 300

ccataaacag cactccctca gggccctgcc tgacacaggc atagactgtc atgttgatt 360

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tttaggcggc accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg 180
45 gttctgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa 240

tg 242

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c 181

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 15 aaggggggtg gggaagagcc aaatttcttt gggaanaac gcccccttgg ggaaaanaag 180
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 30 ggaagaattg tatgtgggag ttttaattgg tctcatttca ttggctataa ctacgttaca 180
 aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga 240
 35 agagacaaat ttgtcatca gctagtgatc tgccatacaa ggtgttcctt taatatgtgt 300
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ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga 420

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acgagccggg ctggagcggg gggaaaagca aatgtaggca taagtaacga caatgcgggc 120

45 gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta 180

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 cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300
 5 tgggcgccag caggggcggc cttcgggcca aaccgaacct caggtcanac ttccaagaaa 360
 agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg 420
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aagaaggaac ccaccctngg ggccaaacaa aaacttaaaa acccccccat ttentncccc 180
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attcggcacg agggattaca gtcgtgagcc actgcacctg gctgcaatt 109

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30 ggtgctcctg cgtttggact gtgcaggcct ctctatgct gatgcgtctc cccactcctg 180

agctaatttc tgctctgctc ctctgtgac atgtggcagc gtgggaaata gccactgtcc 240

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5 actagatttt actgtagatg gtagataaaa gtccagtga aagcaaagat gtgtaatgtt 180

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tgnaatacta ttgcctetta tatacacnac caannntgcg aagggcnann nnaccttnc 180

cantnnnctg gggneccacn nnnngnaact gagagtggat ctgtgtacc tgacnnacca 240

20

gntntnnagn agggcgctca ctctgattgg tgcaccatgg ttacacagtg tgtgcaaaga 300

ccngnctatc tcaactganga tgattgncag ngccnntggg tggcacnang ggnactgatg 360

25 ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnata 420

aggttaccnc cttnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa 480

ntctntcnct ataggcatga ttttnncag tgcgtcagcc tganaanga ancnnacttt 540

30

tgntagatga nnnngtgctc ncccttgngg ctnacaaatt ccancacctt tgggtggcngc 600

agccnttaag ancactnttt ttgggtgctg cntttggatg aattacnaat agnntgtttt 660

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caagtacgcn agcncgtgaan ctaaagcaag caagaaaaag 100

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<212> DNA

<213> Human

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20 tagatatggg aagattatag gaggcgacaa ctaccgagcc tggatgtagc tgggtgtccaa 180

gaagagtctt agttcattta ttggcccag aacctcttaa tccccttgta atttatgtca 240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg 300

25 gcctaatagc agccaccatt aagaaagcgt tcgtccaca cccactacct aaaaatcgaa 360

tataactgac tcttcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

30 ataagtaacc tgaaaacatt ctctctgca taagccctgc gttggattat atcctgcact 480

gacaattaac tgcccgaata tctacaatcc aacct 515

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cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagaggga 120

40 agcctgcctt cattagacca agacagcaag gtttncctg gtcactagat gaaatt 176

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 ggatttgggg tttagaggta caattgcctt tttatggta gagaaaggtc ctggggctgg 180
 15 agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240
 gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtgggtg atgctggcag 300
 acattgttat tgccatt 317
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<210> 57
 <211> 209
 <212> DNA
 25 <213> Human

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 aggagaattg cgtcatttaa agcctgttga cgctttctc ccgcagacga atggaaagat 180
 taattgggag tgggggctga aacaattcg 209
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<210> 58
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 40 <213> Human

<400> 58
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 45 acctgtgcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat 120

caaatcaccg gcatggagat tgcgcctgtg gtcccaaat actcgggctg ggacacgatg 180
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 5 agagcgagac tccatctcta at 262

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 10 <212> DNA
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 cccgggggag gggtatccgg ttataaacc ccaagggtat ttcttagca aaatacttaa 180
 20 aaccggccgg ggttttata caaactggga acccactttt gaaaaatttt ggccttttga 240
 tctgggatgg gaatatgagt tttatacat ttcatTTTct tttgggcaa aggcccgtt 300
 aagtattccc ccccgggggg cctttacaaa aagggcgggt taaaagctt ttggccccc 360
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 45 tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgcat 300

taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga 350

<210> 61

5 <211> 515

<212> DNA

<213> Human

<400> 61

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aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt 180

15 taaaaaggat tcattagtgt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg 240

aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg 300

20 agaaaagaag aattatttca taaacctgtg tggaatggct aggcaatcat ctggaaaaaa 360

atgaagtga ataataaaaa tatattctac actagcacia attataaata aagcagtgat 420

ttaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata 480

25 gtcttctaaa atatatgact ttatgaattc tgact 515

<210> 62

30 <211> 611

<212> DNA

<213> Human

<400> 62

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aataatccac cagatacaag ttgcatcaa ctctgtgaa atatttttt tcctttttgt 180

40 tgggcatttt tatggtctaa atatagaatg accaatgcct ctagaacaaa ctgacctgg 240

tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta ctattttaaa 300

45 tttgttaaaa ttgatattat gatataaaa acttcttttg ccagtgttg tggcacacgc 360

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 5 ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac 540
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 15 <213> Human
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 45 ctgattaga 309

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 agggatggaa tggactcgaa gggaatggaa tggatggat tcgaatggaa aggaatggaa 180
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 15 tgtaatggaa tagactcgaa tggatggaa cgaaattt 278

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 20 <211> 142
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 <400> 66
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 <400> 67
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 40 aaagatgac tcctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg 120
 attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc 180
 ccacattttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc 240
 45 caaagctcca ttctcttgaa agcagaagtg taatattact tcttag 286

<210> 68
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 5 <212> DNA
 <213> Human

 <400> 68
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 10 tagaagtcac tattttatta taaaacatgt ggattagata ttttcattta tgtgattaaa 120
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 30 cttcagtcta agaacgtaaa tccatggaag aattttaagc aggggtgtgc cttgaccaca 120
 ttttgaattc taaactgtct ctgggtgggt gtgggtgccca ccaagagcat gtgttcattg 180
 agggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatgggtg 240
 35 gtgacattgg agataagcag gtagacagat tctcagtgtg ttaggagaga aaaatcaata 300
 ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt 360
 40 ctcaatttct gcatgagaaa aaaggtggac 390

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 45 <212> DNA
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 <223> n is a, c, g, or t

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 tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg 180
 15 agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat 240
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 gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga 360
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 cacag 125

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 35 aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga 180
 cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaata tgacatgaaa 240
 40 tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa 300
 ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga 360
 catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420
 45 tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga 473

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 gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa 180
 30 tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga 240
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 35 tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga 360
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 aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg 480
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<223> n is a, c, g, or t

<400> 74

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cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180
20 tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240
aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg 299

25 <210> 75
<211> 155
<212> DNA
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30 <400> 75
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taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga 120
35 tgagatgaca tgaaataatg aaacgaaatt gaaat 155

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cgccatgaaa ttctgctcg attagcttac gttgttgga tagaggcaa acaaggctgt 180

45 tatcggtagc aggaatggat gttcgatttc gtagaatag cctgagagac ggccaatact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300

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30 tcagtgtttg gggtttattt taaaagaat aggggtgccac cagatgttct ttagtggagg 180

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 30 tattacaaa atattggac cattantaaa gantagggcc aaccnaatt ttcttgaaa 180
 ttccggttaa atagccgtta aatgtttta cccatttcat attggatacc ttaaattata 240
 35 ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc tttctcctc 300
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 35 ccttgatggt caagtattta agaccctatg cnaatatttt ttaccttttc taataaacca 120

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30 ccaataaaaa aaacnnttt ggaaangggg aaa 213

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gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180

15 aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat 240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa 300

20 tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa 360

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 ntagggacct gctctataag cccatcataa ttattatga agttataaca agtaaaacag 180
 taaggtattt ggcatggaat agagaacca gaaacagacc caatgcatgg gtacaggata 240
 30 taacacaggg aaatgagggg caatatatgg ttctgggata attatttata tggggaaaat 300
 aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg 360
 35 catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg 420
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15 aggaaggaag gaagg 135

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aacttcctca gaaggacaag agacaaagaa gtggggggagg ccctcctatc catagctgag 180
35 agggtttatt cttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc 240

aaccacagct agacagaact tttagattt tgggggggtt aaaaggcctc aagcaaattc 300

40 taaaactttc ttgaacccc ctggcatagg ctgagtttcc ctgact 346

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45 <212> DNA
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<400> 85

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5 gaaaagaaaa tggttttttt tgccgaaatc aaccgggtaa 100

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attacctctt tttgtacca ctcttaaagg ccaggaacat atttgagaa gcctagtgt 180

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tcttttacc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg 180

35 ttaaccatcg caatgccga ccgagtttaa ggaccactcc ccaccttct cattagtaa 240

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gtcgagtccc tcttctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga 360

40 ttcttctaag cgtagcgcgt ctactccaat gtttcgtta atccagccc aactaacgcc 420

gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag 480

45 aaaacaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a 531

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 5 <213> Human

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acagccaaac cggtcgcccc aaggcctccg tcgttttata atatattccg tttagtata 180

aggaacgaac ccccttcat taccacggtc ccgcgtccgc ctcttctcc attcgcaaca 240

15 gttctattcc tttagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa 300

gatagcaaag attaccagc ttctattcct cgccccagag ccgagtaaatt cgaagtttat 360

20 agaggcggaa tccaaccatt caagagtat aacaagttat cggcactcgg gggatcagaa 420

tataaactta atgtccctt tattctcccg gacgcccctt ttaaccatt ctctctatct 480

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 aattaaggna aggnntaaaa aatttaacca angggggggt taaagggnnt tttttttta 180
 aaaaaaagg ttaaancccc ccctttttt ttgggttggg gtgggaaaat tttgggaanc 240
 45 cttaaccccc gggtttttgg gtttttttgg ccaaaacccc ccggaaaaaa attaaaaaaaa 300

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332

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cgggtggaac tattaaaaca taagttaat cggattttaa aattttaaaa tcaaaaaaaaa 120

15 taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt 180
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 40 atgggnaant ttnnnngggg ggggggaaaa ancccnnggg tnannggggg ccnngggntt 180
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 aaancnttt naaanacngn nanaatttn cnnnncggg gagngngga nntttttt 300
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ccnttnnanc ntgggnnttt ttagnccctn aaaaaaangc naatnttaag gtaaaaattn 420

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ntnnanctnc ngntnaacat cacagctnct ccnagcatca ccctgctagn tancngnggg 180
30 ttttctctta tntgnngncn naacatctgc nngctctgnt annaanaatt ncataccgc 240
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atgagatgat gaaataaaat gatgaaatga gatgtgatga gatgaaatga ngagatgaaa 180

40 tgatgagatg agatgacatg aaataaatga aataatgaaa tcgaaatgag atgagaagat 240

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 gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa 180
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gaaatgaaat gatgagatga aatgaggtga aatgaaatta gatgaaacgt aatgagatga 180

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atgatgaaat taaatgatga aatgaaataa tgaaatggaa atgaaatgga aatgatgaga 300

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ntgagatgaa aagagatgaa atgagatgaa accgaaatga tgagatgaaa tgaggtgaaa 420

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 30 ngaggaagac cc 132

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 aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggtt 180
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